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PROVISIONAL SPECIFICATION.

Improvements in Body Belts, Rupture Belts, or Supports and the like, for Surgical and Hygienic Purposes.

We, HEINRICH BURGER, of Lichtenthal, near Baden-Baden, Germany, Doctor of Medicine, and THEODOR LUTZ, of Baden-Baden, Germany, Apothecary, do hereby declare the nature of this invention to be as follows:—

Our invention relates to improved constructions of body belts for surgical and hygienic purposes such as for navel ruptures and the like, which belts are combined with a dorsal support, and the fastening of which to the front pad or plate of the belt is not effected by means of buckles as heretofore, but by means of buttons or studs. With the customary fastenings of rupture belts and the like by means of two or more straps, there was heretofore either no dorsal support at all, or the straps were combined with a dorsal plate or pad without means of adjustment and so that they easily slipped near together, more particularly at the hips, by the movements of the body, whereby the pad or plate was caused to lose its hold, and in slipping upwards, became inefficient, and frequently caused the wearer considerable pain, owing to the excessive and concentrated pressure of the straps when shifted together.

According to the present invention, there is combined with the straps a special dorsal plate which has suitable perforations for the attachment of the straps by means of cords or laces, the said attachments being so arranged that the straps can be secured nearer together or farther apart, according to requirements, so that as the straps, in consequence of their arrangement, must always be parallel, a pushing together thereof is impossible. As furthermore the belt or pad combined with the straps in the above described manner cannot possibly lose its hold, being held equally at top and bottom by the parallel straps, the auxiliary supporting straps such as are necessary with belts or supports of usual construction, can be entirely dispensed with.

On the accompanying drawing is shewn by way of example a body belt or support constructed according to our above described invention.

Fig. 1 shews the complete body belt with the new dorsal support and the new mode of strap fastening.

Fig. 2 shews an enlarged detailed view of the front part or pad of the belt, together with the mode of securing the straps. Fig. 3 shews an enlarged back view of the dorsal support or plate.

The belt consists of the two straps c and c^1 which are secured to any desired form of front support pad, or plate a, by means of the studs b, and are attached to the dorsal support, plate or pad d by means of cords or laces. This support consists of a plate of any suitable material in which are formed rows of holes d^1 serving for the passage of the laces or cords e which secure the straps c, similarly provided with holes, in the manner shewn.

The straps are thus effectually secured in their relative positions by the dorsal plate, and cannot shift nearer together; but they can be shifted nearer together or farther apart on the plate d by passing the cords or laces through a different set of holes of the latter.

[*Price* 8*d*.]

Improvements in Body Belts, &c., for Surgical and Hygienic Purposes.

The improvements relate furthermore to the easy and convenient means for connecting the dorsal part with the front part.

With body belts of usual construction, the dorsal part was either unseparably attached to the front part or was connected thereto by buckles, laces, &c. According to the improved construction, as above described, the connection of the dorsal plate with each side of the front part *a* is effected by means of two or more studs or buttons attached thereto, on to which the straps attached to the dorsal plate are buttoned, by means of button holes.

The front part or pad *a* is shewn by way of example to be divided at the middle, and adjustably secured together by means of laces; on each side it is provided with a plate of more or less hard but flexible material indicated by the dotted lines a^1.

These plates a^1 carry the studs *b*, two or more in number, on to which the straps $c\,c^1$ are buttoned.

The studs are arranged in inclined rows as shewn, that is to say, the two lower ones are nearer together than the two upper ones. By this means the lower part of the pad *a* can be effectually pressed close against the abdomen, this being only effected in existing constructions by means of additional straps.

It will be readily understood that other forms of belts, such as rupture belts and the like can be constructed in a similar manner to that above described.

Dated this 12th day of October 1897.

ABEL & IMRAY,
Agents for the Applicant.

COMPLETE SPECIFICATION.

Improvements in Body Belts, Rupture Belts, or Supports and the like, for Surgical and Hygienic Purposes.

We, Heinrich Burger, of Lichtenthal, near Baden-Baden, Germany, Doctor of Medicine, and Theodor Lutz, of Baden-Baden, Germany, Apothecary, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

Our invention relates to improved constructions of body belts for surgical and hygienic purposes such as for navel ruptures and the like, which belts are combined with a dorsal support, and the fastening of which to the front pad or plate of the belt is not effected by means of buckles as heretofore but by means of buttons or studs. With the customary fastenings of rupture belts and the like by means of two or more straps, there was heretofore either no dorsal support at all, or the straps were combined with a dorsal plate or pad without means of adjustment and so that they easily slipped near together, more particularly at the hips, by the movements of the body, whereby the pad or plate was caused to lose its hold.

According to the present invention, there is combined with the straps a special dorsal plate which has suitable perforations for the attachment of the straps by means of cords or laces, the said attachments being so arranged that the straps can be secured nearer together or farther apart, according to requirements, so that as the straps must always be parallel, a pushing together thereof is impossible. As furthermore the belt or pad combined with the straps in the above described manner cannot possibly lose its hold, being held equally at top and bottom by the parallel straps, the auxiliary supporting straps such as are necessary with belts or supports of usual construction, can be entirely dispensed with.

On the drawing accompanying our Provisional Specification is shewn by way of example a body belt or support constructed according to our above described invention.

Improvements in Body Belts, &c., for Surgical and Hygienic Purposes.

Fig. 1 shews the complete body belt with the new dorsal support and the new mode of strap fastening.

Fig. 2 shews an enlarged detailed view of the front part or pad of the belt, together with the mode of securing the straps.

Fig. 3 shews an enlarged back view of the dorsal support or plate.

The belt consists of the two straps c and c^1 which are secured to any desired form of front support pad, or plate a, by means of the studs b, and are attached to the dorsal support plate or pad d by means of cords or laces. This support consists of a plate of any suitable material in which are formed rows of holes d^1 serving for the passage of the laces or cords e which secure the straps c, similarly provided with holes, in the manner shewn.

The straps are thus effectually secured in their relative positions by the dorsal plate, and cannot shift nearer together; but they can be shifted nearer together or farther apart on the plate d by passing the cords or laces through a different set of holes of the latter.

The improvements relate furthermore to the easy and convenient means for connecting the dorsal part with the front part.

With body belts of usual construction, the dorsal part was either unseparably attached to the front part or was connected thereto by buckles, laces &c. According to the improved construction, as above described, the connection of the dorsal plate with each side of the front part a is effected by means of two or more studs or buttons attached thereto, on to which the straps attached to the dorsal plate are buttoned, by means of button holes.

The front part or pad a is shewn by way of example to be divided at the middle, and adjustably secured together by means of laces; on each side it is provided with a plate of more or less hard but flexible material indicated by the dotted lines a^1.

These plates a^1 carry the studs b, two or more in number, on to which the straps $c\,c^1$ are buttoned.

The studs are arranged in inclined rows as shewn, that is to say, the two lower ones are nearer together than the two upper ones. By this means the lower part of the pad a can be effectually pressed close against the abdomen, this being only effected in existing constructions by means of additional straps.

It will be readily understood that other forms of belts, such as rupture belts and the like can be constructed in a similar manner to that above described.

Having now particularly described and ascertained the nature of this invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A body or rupture belt or support, consisting of the combination of two or more straps or bands with a dorsal plate, or support, having rows of holes for laces which secure the straps thereto in such manner, that the straps can be shifted in position relatively to each other on the dorsal plate, and a front pad having studs by means of which the said straps can be secured thereto, substantially as and for the purposes herein described.

2. In a body belt such as is referred to in the first claim, arranging the studs on the front pad in two rows inclined to each other, for the purpose of enabling the lower straps to draw the lower part of the pad close against the body substantially as described.

Dated this 27th day of June 1898.

ABEL & IMRAY,
Agents for the Applicants.

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BURGER & *another's* Complete Specification.

(1 SHEET)

Fig. 1

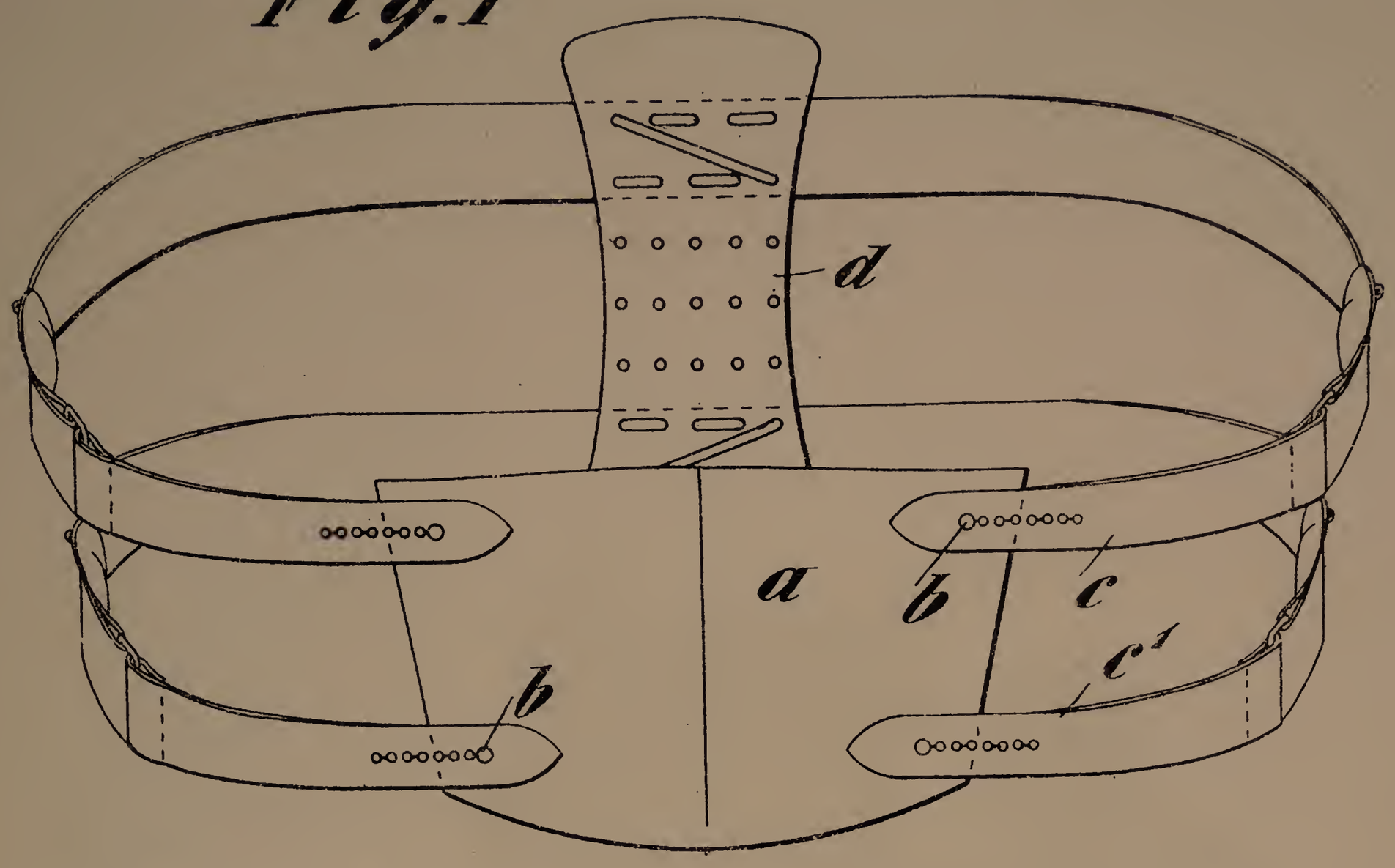


Fig. 2

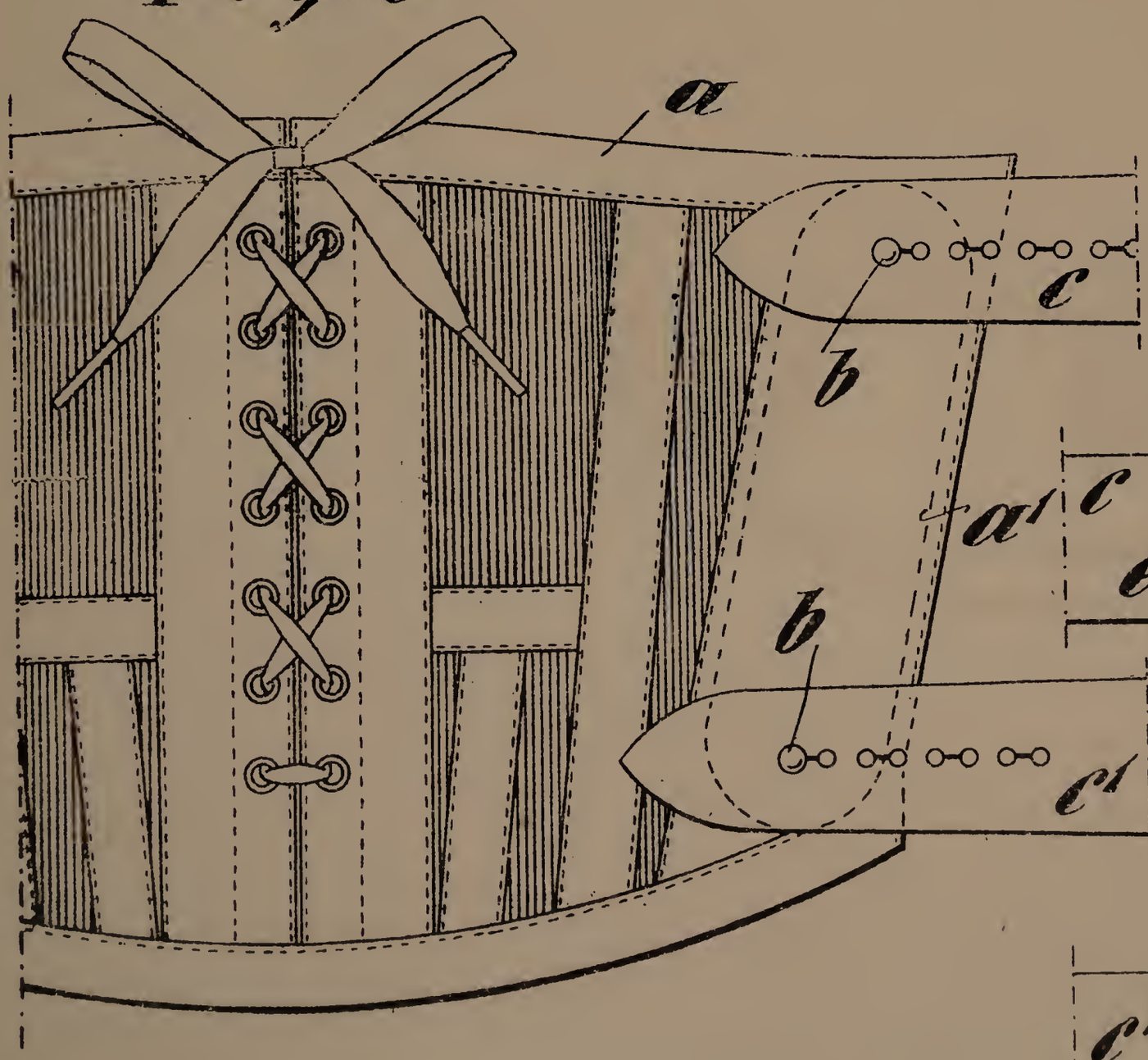
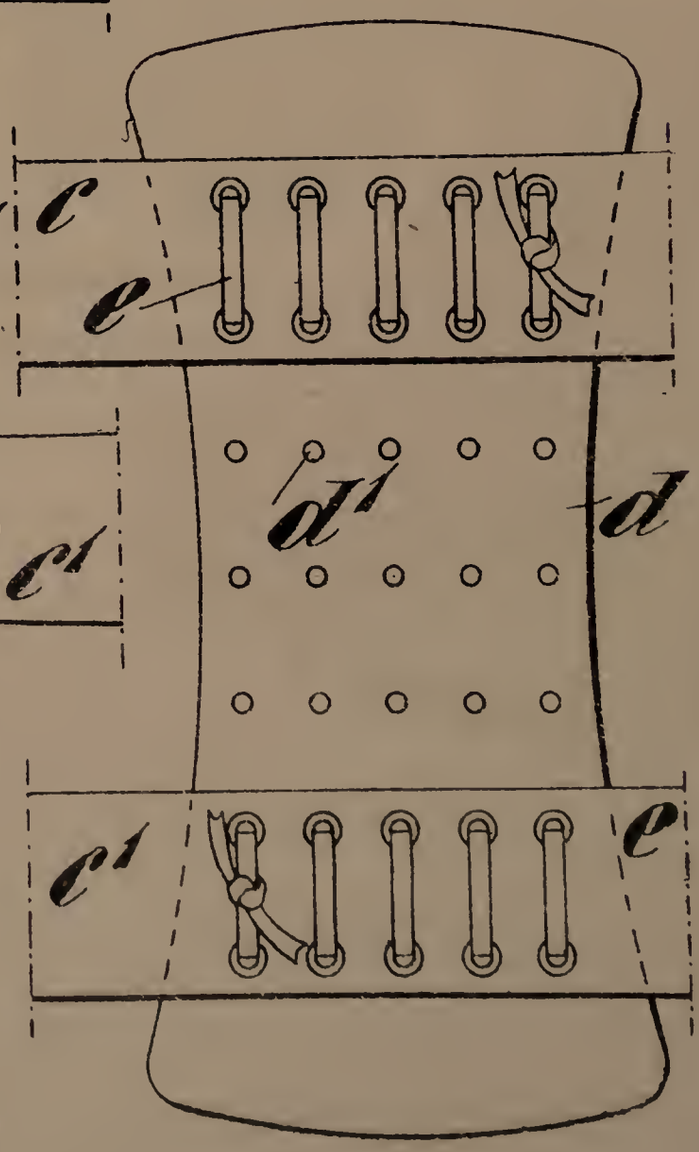


Fig. 3



[This Drawing is a reproduction of the Original on a reduced scale.]

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